

# SpaceKnow Backend Candidate Assignment

Version 165

## Goal

Write a Python 3.5+ tool that

- counts number of cars using SpaceKnow APIs in all imagery taken during April 2018 that is available through SpaceKnow platform for a given area of interest specified in an input GeoJSON file (that contains single Geometry),
- for each image, download all its imagery tiles and detection tiles and stitch them into a single PNG.

Run the script and present results for Staff Parking Lot of Brisbane Airport, Australia.

## How

- Try to write production-grade code (i.e. proper code structure, reusable parts, ...).
- Work in a git repository and do proper commits. Hang-out the repository, not just a snapshot.
- If it helps the code, feel free to use any reasonable Python library (from PyPI).

## What You'll Need

- SpaceKnow platform account created on <https://analytics.spaceknow.com/> - click *Unlock Full Map*, fill-in your e-mail and choose a password
- SpaceKnow APIs documented on <https://docs.spaceknow.com/index.html>

## Misc & Tips

- Please finish this assignment within 7 days.
- The area around Brisbane, Australia is a free sandbox in SpaceKnow Platform, you shouldn't need any credits.
- Do not use deprecated SpaceKnow APIs.
- Use <https://analytics.spaceknow.com/> for a while to see SpaceKnow platform capabilities and to look around.
- The documentation contains links and explanation of related topics and concepts.
- Contact us with any problems that you think are on our side.